Model Number 3125-01 A		ROTARY TO	DRQUE TRANSF	ORM	ER, SHAFT-SHAFT
Performance		ENGLISH	SI		Optional Versions (Optional v
Measurement Ra	ange (Full Scale Capacity)	5000 in-lb	565 Nm		for standard model except whe
Sensitivity (outp	out at rated capacity)	2.0 mV/V	2.0 mV/V	[4]	·
Non-Linearity		≤0.1 % FS	≤0.1 % FS	[2]	Notes
Hysteresis		≤0.1 % FS	≤0.1 % FS	[2]	[1] Recommended 10 V
Non-Repeatabilit	у	≤0.05 % FS	≤0.05 % FS	[2]	[2] FS - Full Scale.
Environmental					[3] Over compensated of
Overload Limit		10000 in-lb	1130 Nm		[4] Nominal.
Temperature Rar	nge (Operating)	0 to 200 °F	-18 to 93 °C		[5] See drawing 45891 t
Temperature Rar	nge (Compensated)	70 to 150 °F	21 to 66 °C		
Temperature Effe	ect on Output (Maximum)	±0.002	±0.0018 %Reading/°C	[3]	
		%Reading/°F			
Temperature Effe (Maximum)	ect on Zero Balance	±0.002 %FS/°F	±0.0018 %FS/°C	[3]	
Electrical					
Bridge Resistanc	e	350 Ohm	350 Ohm		
Excitation Voltage		20 VDC or VAC	20 VDC or VAC rms	[1]	
9		rms		1.1	
Insulation Resista	ance	>5 GOhm	>5 GOhm		
Zero Balance			≤2 % FS	[2]	
Bridge Current ((at 5 VAC)	50 mA	50 mA		
Physical	,				
Size (Shaft Lengt	th x Housing Length x	11.00 in x 5.25 in x	279.4 mm x 133.4	[5]	
Housing Height x	Shaft Diameter x Shaft	4.50 in x 1.50 in x	mm x 114.3 mm x		
Keyway)		3/8 in	38.1 mm x 9.5 mm		
Weight		9.5 lb	4.4 Kg		
Mounting		Keyed Shaft	Keyed Shaft		
Sensing Element		Strain Gage	Strain Gage		
Housing Material		Aluminum	Aluminum		
Shaft Material		Alloy Steel	Alloy Steel		
Electrical Connec		PT02H-10-6P	PT02H-10-6P		
Electrical Connec		Тор	Тор		
Maximum Speed		7900 RPM	7900 RPM		
					1

ECN #: **Optional Versions** (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision NR

Notes

- [1] Recommended 10 VAC RMS.
- [2] FS Full Scale.
- [3] Over compensated operating temperature range.
- [4] Nominal.
- [5] See drawing 45891 for complete dimensions.

All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without notice.

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Entered: BLS	Engineer: PE	Sales: JC	Approved: BLS	Spec Number:
Date:	Date:	Date:	Date:	45889
03/29/2010	03/29/2010	03/29/2010	03/29/2010	



Company: PCB Load & Torque, Inc. Address: 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES

Phone: 866-684-7107 Fax: 716-684-0987

E-mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com

Model Number 3125-02A		ROTARYTO	RQUE TRANSFO	RME	R, STRAIN-STRAIN
Performance		ENGLISH	SI		Optional Versions (Optional v
Measurement Ra	ange (Full Scale Capacity)	10000 in-lb	1130 Nm		for standard model except whe
Sensitivity (outp	out at rated capacity)	2.0 mV/V	2.0 mV/V	[4]	
Non-Linearity		≤0.1 % FS	≤0.1 % FS	[2]	Notes
Hysteresis		≤0.1 % FS	≤0.1 % FS	[2]	[1] Recommended 10 V
Non-Repeatabilit	у	≤0.05 % FS	≤0.05 % FS	[2]	[2] FS - Full Scale.
Environmental					[3] Over compensated o
Overload Limit		20000 in-lb	2260 Nm		[4] Nominal.
Temperature Rar	nge (Operating)	0 to 200 °F	-18 to 93 °C		[5] See drawing 45891 fo
Temperature Rai	nge (Compensated)	70 to 150 °F	21 to 66 °C		
Temperature Effe	ect on Output (Maximum)	±0.002	±0.0018 %Reading/°C	[3]	
•	, , ,	%Reading/°F	_		
Temperature Effe	ect on Zero Balance	±0.002 %FS/°F	±0.0018 %FS/°C	[3]	
(Maximum)					
Electrical					
Bridge Resistand	e	350 Ohm	350 Ohm		
Excitation Voltag	е	20 VDC or VAC rms	20 VDC or VAC rms	[1]	
Insulation Resista	ance	>5 GOhm	>5 GOhm		
Zero Balance		≤2 % FS	≤2 % FS	[2]	
Bridge Current	(at 5 VAC)	50 mA	50 mA	[-]	
Physical	(4.5 77.5)	00 1117 (00 1111 1		
	th x Housing Length x	11.00 in x 5.25 in x	279.4 mm x 133.4	[5]	
	Shaft Diameter x Shaft	4.50 in x 1.50 in x	mm x 114.3 mm x	[~]	
Keyway)		3/8 in	38.1 mm x 9.5 mm		
Weight		9.5 lb	4.4 Kg		
Mounting		Keyed Shaft	Keyed Shaft		
Sensing Element		Strain Gage	Strain Gage		
Housing Material		Aluminum	Aluminum		
Shaft Material		Alloy Steel	Alloy Steel		
Electrical Connec	ctor	PT02H-10-6P	PT02H-10-6P		
Electrical Connec	ction Position	Top	Тор		
Maximum Speed		7900 RPM	7900 RPM		
·					

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision NR

ECN #:

Notes

- [1] Recommended 10 VAC RMS.
- [2] FS Full Scale.
- [3] Over compensated operating temperature range.
- [4] Nominal.
- [5] See drawing 45891 for complete dimensions.

All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.

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Entered: BLS	Engineer: PE	Sales: JC	Approved: BLS	Spec Number:
Date:	Date:	Date:	Date:	45890
03/29/2010	03/29/2010	03/29/2010	03/29/2010	



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